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Kyushu University's New Supercomputer Accelerated by Mellanox EDR InfiniBand Solutions

University Selected EDR InfiniBand to Ensure Highest Performance and Scalability

SUNNYVALE, Calif. & YOKNEAM, Israel--(BUSINESS WIRE)-- Mellanox[®] Technologies, Ltd. (NASDAQ: MLNX), a leading supplier of high-performance, end-to-end interconnect solutions for data center servers and storage systems, today announced that RIIT (Research Institute for Information Technology) at the Kyushu University, Japan, will introduce Mellanox EDR InfiniBand smart interconnect solutions for their new supercomputer, a Fujitsu-built system comprised of a PRIMERGY server solution. The InfiniBand technology provides the university with smart accelerations, enabling in-network-computing. This ensures faster data processing, higher performance, and efficiency for the various applications workloads. The system is planned to be fully operational by January 2018, and to deliver over 10 Petaflop of peak computing power.

As one of the leading supercomputing centers for academic research, RIIT at Kyushu University provides high-performance computing resources for study in fluid dynamic analysis, molecular science and other scientific disciplines across Japan. The new supercomputer will address the growing computational needs, and be able to support data-science applications as well.

"For the past five years, RIIT has been using Mellanox InfiniBand solutions for our high-performance computing systems," said Takeshi Nanri, Associate Professor, RIIT of Kyushu University. "Because of the superior performance and stability, we have great confidence in Mellanox's InfiniBand solution to power our upcoming supercomputing platform. The 100G InfiniBand EDR solution assists us to migrate to the in-network-computing architecture, which enables faster data analysis and the highest system efficiency of our applications."

The Mellanox EDR InfiniBand solutions enable in-network computing through smart offload engines, including the SHARP, Scalable Hierarchical Aggregation and Reduction Protocol[™] technology. This technology analyzes data as it being transferred within the network so that a large portion of its burden is offloaded from the communication layers into the network hardware. This results in an order of magnitude applications performance improvement.

"We are delighted to work with the university and Fujitsu to deliver the most advanced supercomputing platform," said Gilad Shainer, vice president of Marketing at Mellanox. "Our EDR InfiniBand solutions provide the highest performance and scalability due to the smart offloading architecture. Furthermore, as a standard technology, InfiniBand ensures backward and forward compatibility, which protects the university investment and provides them with the best return on investment."

Supporting Resources:

- | Find out more: [InfiniBand Switches](#)
- | Find out more: [ConnectX-5](#)
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About Mellanox

Mellanox Technologies (NASDAQ: MLNX) is a leading supplier of end-to-end Ethernet and InfiniBand intelligent interconnect solutions and services for servers, storage, and hyper-converged infrastructure. Mellanox intelligent interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance. Mellanox offers a choice of high performance solutions: network and multicore processors, network adapters, switches, cables, software and silicon, that accelerate application runtime and maximize business results for a wide range of markets including high performance computing, enterprise data centers, Web 2.0,

cloud, storage, network security, telecom and financial services. More information is available at: www.mellanox.com.

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